

**Patent Claims**

1. Display and control device for medical equipment comprising units connectable to an electric bus, in particular for life support systems such as heart-lung machines or artificial respiration systems, having
  - at least one display/control unit (6) with
    - o a display device (8) having a plurality of activatable pixels,
    - o a display activation device (9) which activates the pixels of the display device on the basis of data supplied,
    - o a transparent input device (11) disposed on the surface of the display device (8) facing an observer,
    - o an input evaluation device (12) which evaluates the inputs made via the input device and
    - o a connection means (13) with which the display activation device (9) and the input evaluation device (12) are connected and by means of which the display/control unit (6) can be connected to an electric bus (15), and
  - a base unit (7) with
    - o an electric bus (15) for the communication of units connected to said bus and
    - o connector devices (16) at which the display/control units (6) can be connected to the electric bus (15) by means of the connection means (13), and

- o a configuration unit (18) which is connected with the electric bus (15) and which, after connection of a display/control unit (6) to said electric bus (15), transmits configuration data determining the display contents and input areas of the display/control unit (6) to said display/control unit (6) via the electric bus (15).
- 2. Display and control device according to claim 1, characterised in that for each of the connector devices (16) of the base unit (7), it is determined in the configuration device (18) which configuration data are transmitted to a display/control unit (6) connected to the respective connector device (16).
- 3. Display and control device according to claim 1, characterised in that in the configuration device (18), the configuration data transmitted to the connected display/control units (6) are determined depending on the sequence in which the display/control units are connected to the base unit (7).
- 4. Display and control device according to claim 1, 2 or 3, characterised in that several areas for displaying display contents and for receiving inputs are logically defined in the display (8) of the display/control unit (6).
- 5. Display and control device according to claim 4, characterised in that several of the logical areas are combinable to form a connected area.

6. Display and control device according to one of claims 1 to 5, characterised in that several display/control devices (6) are constructed identically.
7. Display and control device according to one of claims 1 to 6, characterised in that the display/control units (6) are fixed to the base unit (7) by way of the connection between the connection means (13) and the connector device (16).
8. Display and control device according to one of claims 1 to 7, characterised in that the display/control units (6) are fixed on the base unit (7) by means of additional fixing elements.
9. Display and control device according to one of claims 1 to 8, characterised in that data for displaying digits, numbers and map pixels are stored in the display activation device (9) of the display/control unit (6).
10. Display and control device according to one of claims 1 to 9, characterised in that the display/control unit (6) and the configuration device (18) are arranged such that data for the display contents can be transmitted to the display/control unit (6) by the configuration device (18) and stored in said display/control unit (6).
11. Display and control device according to claim 10, characterised in that the display/control unit (6) informs the configuration device (18) of which data for

display contents are stored in the display activation device (9).

12. Display and control device according to one of claims 1 to 11, characterised in that a bus communication device (14) is provided, via which the display activation device (9) and the input evaluation device (12) are connected to the bus (15).
13. Display and control device according to one of claims 1 to 13, characterised in that no further control elements are provided.
14. Display and control device according to one of claims 1 to 13, characterised in that apart from an on/off switch, no further control elements are provided.
15. Display/control unit adapted for use in a display and control device according to one of claims 1 to 14.